

Product Name: MH-100 ink Magenta

SDS No. 037-U144050 First issue: 2018/06/27 Revised: 2019/11/27

### Section 1 - Identification

Product identifier MH-100 ink Magenta

Product code MH100-M-BA

Recommended use of the UV curable 3D model ink

chemical and restrictions on use

Details of manufacturer or MIMAKI ENGINEERING CO., LTD.

importer

2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 Japan

+81-268-64-2413

Importer / Distributor Information MIMAKI AUSTRALIA PTY LTD.

Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia

+ 61-2-8036-4500

Emergency phone number +61 2 8014 4558 (within Australia only)

18000 74234 (within Australia only)

+65 3158 1074

### Section 2 - Hazard(s) Identification

Classification of the hazardous chemical

Acute toxicity - oral Category 4
Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Sensitization - skin Category 1 Reproductive toxicity Category 2

Specific target organ toxicity (single exposure) Category 3 (respiratory tract

irritation)

Specific target organ toxicity (repeated exposure) Category 2 Hazard to the aquatic environment (acute hazard) Category 2 Hazard to the aquatic environment (long-term hazard) Category 2

Label elements, including precautionary statements

Pictograms or Symbols



Signal Word Hazard Statements Danger

H302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

H317 May cause an allergic skin reaction



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H361 Suspected of damaging fertility or the unborn child (state specific

effect if known)

H335 May cause respiratory irritation

H373 May cause damage to organs through prolonged or repeated exposure

H401 Toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention Obtain special instructions before use(P201)

Do not handle until all safety precautions have been read and

understood(P202)

Do not breathe mist, vapours and spray.(P260)

Wash thoroughly after handling.(P264)

Do not eat, drink or smoke when using this product(P270) Use only outdoors or in a well-ventilated area(P271)

Contaminated work clothing should not be allowed out of the

workplace.(P272)

Avoid release to the environment(P273)

Wear protective gloves.(P280)

Wear eye protection and face protection.(P280)

Use personal protective equipment as required. (P281)

Response IF ON SKIN: Wash with plenty of soap and water(P302+P352)

IF INHALED: Remove to fresh air and keep at rest in a position comfortable

for breathing.(P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing(P305+P351+P338) IF exposed or concerned: Get medical advice/attention(P308+P313)

Immediately call a POISON CENTER/doctor(P310) Call a POISON CENTER/doctor. If you feel unwell.(P312)

Specific treatment.(P321)

Rinse mouth(P330)

If skin irritation or rash occurs: Get medical advice/attention(P333+P313)

Take off contaminated clothing and wash it before reuse. (P362)

Collect spillage(P391)

Storage Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Store locked up(P405)

Dispose of contents/ container to an approved landfill.(P501) Disposal

#### Section 3 - Composition and Information on Ingredients

Substances or mixture Mixtures			
Ingredients name	Contents	Chemical formula	CAS RN
Tripropylene glycol diacrylate	25-35%	Unknown	42978-66-5
Acrylic monomer	20-25%	Unknown	Confidential

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Morpholine, 4-(1-oxo-2-propenyl)-	15-25%	Unknown	5117-12-4	
Oligomer	15-25%	Unknown	Confidential	
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	1-10%	Unknown	75980-60-8	

Section 4 - First Aid Measures	
In case of inhalation	Call a POISON CENTER or doctor / physician if you feel unwell.
	IF exposed or concerned: Get medical advice and attention.
In case of skin contact	IF ON SKIN: Wash with plenty of soap and water.
	Take of contaminated clothing and wash before re-use.
	If skin irritation or rash occurs, get medical advice and attention.
	IF exposed or concerned: Get medical advice and attention.
	Specific treatment.
In case of eye contact	Immediately call a POISON CENTRE or doctor/physician.

lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice and attention.

Rinse mouth.

IF exposed or concerned: Get medical advice and attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Induce vomiting.

- 1		
	Suitable extinguishing equipment	Dry chemical, alcohol-resistant foam, CO2, sand, water spray.
	Not suitable extinguishing media	Cylindric water.
	Specific hazards arising from the	Risk of producing harmful gases such as carbon monoxide and sulfur oxides.
	chemical	Avoid inhalation of smoke or gases

hemical Avoid inhalation of smoke or gases

Special protective equipment and Use goggles in combination with dust mask, and another protections as appropriate to situation.

### Section 6 - Accidental Release Measures

Section 5 - Fire Fighting Measures

Personal precautions, protective Use goggles in combination with dust mask, and another protections as equipment and emergency appropriate to situation.

procedures

Large spills :Evacuate area.
Ensure adequate ventilation.

Environmental precautions

Methods and materials for
containment and cleaning up

Do not discharge into the drains, surface waters or ground water directly. small spill: absorb with material such as non-combustible materialwash

thoroughly after handling

Large spills: Dike spills and dispose of in safe area.

#### Section 7 - Handling and Storage

Handling



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Technical measures Use local exhaust ventilation in case of production of fume or mist.

Facilities storing or utilizing this material should be equipped with an eyewash

facility and a safety shower.

Do not eat, drink or smoke when using this product. Safe handling advice

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace.

Do not breathe dust/fume/gas/mist/vapours/spray.

Storage

Suitable storage conditions Store locked up.

#### Section 8 - Exposure controls and personal protection

No data available Control parameters

Use local exhaust ventilation in case of production of fume or mist. Engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash

facility and a safety shower.

Use explosion-proof electrical equipment and prevent from static

electrocity.

Individual protection measures, for example personal protective

equipment (PPE)

Eye and face protection Wear eye protection/face protection.

Skin protection Wear protective clothing. Hand protection Wear protective gloves.

Respiratory protection If necessary, wear respiratory protection.

Liquid

#### Section 9 - Physical and Chemical Properties

Appearance

Physical state

Color magenta Odor unique odor Odor threshold No data available Hg No data available Melting point/freezing point No data available No data available Initial boiling point and boiling

ranget

Flash point 93°C or more Evaporation rate No data available Flammability(Solid, Gas) No data available Flammability or explosive limits No data available Vapor pressure No data available Vapor density No data available

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Relative density 1.07(25°C)

Solubility

No data available

Partition coefficient: n= No data available

octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available

No data available

8±3mPa•s(25°C)

Section 10 - Stability and Reactivity

Reactivity No reactivity hazard is expected.

Chemical stability Stable under normal conditions of use.

Possibility of hazardous reactions Will not polymerize.

Conditions to avoid Avoid flames, sparks, and other sources of ignition.

Avoid contact with incompatible materials.

Incompatible materials acids, bases, metals, oxidizing materials, metal oxides

Hazardous decomposition

products

oxides of carbon, oxides of nitrogen

### Section 11 - Toxicological Information

Acute toxicity (Oral) Category 4:5117-12-4 (converted value = 500mg/kg, source: GHS Hazardous

Chemical Information List)

Not classified:42978-66-5 (source: NITE) Not applicable:75980-60-8 (source: NITE) No data:Confidential (source: None)

Calculation result = 1250mg/kg. Classification result = Category 4.

Acute toxicity (Dermal) Not classified:42978-66-5 (source: NITE)

Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

No data:Confidential (source: None)

Contains substance of unknown toxicity. Changed from Not classified to

Classification not possible.

Acute toxicity (Inhalation: Gases) Does not fall under gas based on GHS definitions.

Acute toxicity (Inhalation: Unable to classify due to insufficient data.

Vapours)

Acute toxicity (Inhalation: Unable to classify due to insufficient data.

dust/mist)

Skin corrosion/Irritation Category 2:42978-66-5 (source: GHS Hazardous Chemical Information List)

Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

No data:Confidential (source: None)

Sum of Category 2 Concentration limit = 10%. Classification result = Category

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2.

Category 1:5117-12-4 (source: GHS Hazardous Chemical Information List) Serious eye damage/irritation

Category 2:42978-66-5 (source: GHS Hazardous Chemical Information List)

Not applicable:75980-60-8 (source: NITE)

No data:Confidential (source: None)

Sum of Eye category 1 Concentration limit = 3%. Classification result =

Category 1.

Respiratory Sensitization

Unable to classify due to insufficient data.

Skin Sensitization Category 1:5117-12-4 (source: GHS Hazardous Chemical Information List).

42978-66-5 (source: GHS Hazardous Chemical Information List)

Not applicable:75980-60-8 (source: NITE)

No data:Confidential (source: None)

42978-66-5 >= 1% Classification result = Category 1

Germ cell mutagenicity

Carcinogenicity

Unable to classify due to insufficient data. Unable to classify due to insufficient data.

Category 2:75980-60-8 (source: GHS Hazardous Chemical Information List) Reproductive toxicity

Not applicable:5117-12-4 (source: NITE)

No data:Confidential (source: None), 42978-66-5 (source: None)

 $75980-60-8 \ge 3\%$  Classification result = Category 2

Reproductive toxicity, effects on

or via lactation

Unable to classify due to insufficient data.

Specific target organ toxicity -

Single exposure

Category 3:42978-66-5 (organ = respiratory tract irritation, source: GHS

Hazardous Chemical Information List)

Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

No data:Confidential (source: None)

Sum of Category 3(respiratory tract irritation) Concentration limit = 20%.

Classification result = Category 3(respiratory tract irritation).

Specific target organ toxicity -

Repeated exposure

Category 2:5117-12-4 (organ = ---, source: GHS Hazardous Chemical

Information List)

Not applicable:75980-60-8 (source: NITE)

No data:Confidential (source: None), 42978-66-5 (source: None)

5117-12-4 >= 10% Classification result = Category 2

Unable to classify due to insufficient data. Aspiration hazard

Section 12 - Ecological Information

Hazardous to the Aquatic Category 2:42978-66-5 (source: NITE)

Environment - Acute Toxicty Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

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No data:Confidential (source: None)

(M factor x 10 x Category 1) + Category 2  $\geq$  Concentration limit(25%).

Classification result = Category 2.

Hazardous to the Aquatic

Category 2:42978-66-5 (source: GHS Hazardous Chemical Information List)

Environment - Chronic Toxicity

Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

No data:Confidential (source: None)

(M factor x 10 x Category 1) + Category 2  $\geq$  Concentration limit(25%).

Classification result = Category 2.

Hazardous to the Ozone layer Unable to classify due to insufficient data.

Section 13 - Disposal considerations

Residual waste Before disposal, make the wastes harmless, stabilized, and neutralized, and

minimize danger and toxicity of the wastes.

Dispose of waste in accordance with local, state and federal regulations.

Contaminated container and

packaging

Passed to a licensed waste contractor.

In case of disposal of empty containers, remove the content thoroughly.

#### Section 14 - Transport Information

International regulations

**IMDG** 

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es) 9
Packing group III

Special Provision 2.10.2.7 \*1

IATA

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 $\begin{array}{ll} \text{Transport hazard class(es)} & 9 \\ \text{Packing group} & \blacksquare \end{array}$ 

Special Provision A197 \*1

**ADG** 

UN number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es) 9
Packing group III

\*1 Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations

-- see UN Special Provision.



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### Section 15 - Regulatory Information

High Volume Industrial Chemicals

High Volume Industrial Chemicals List

List

Component Analysis - Inventory

Tripropylene glycol diacrylate (42978-66-5)

TSCA	ENCS	KECI					EINECS		NZIoC
_	ENCS	_ KEGI	IECSC -	DSL -	PICCS -	AICS -	_	TCSI -	_
United		Korea	China	Canada	Philippines	Australia	European	Taiwan	New
States	Japan	Korea					Union		Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Morpholine, 4-(1-oxo-2-propenyl)- (5117-12-4)

TSCA	ENCS	KECI					ELINCS		NZIoC
-	- ENGS	KEOI	IECSC -	NDSL -	PICCS -	AICS -	_	TCSI -	_
United			China	Canada	Philippines	Australia	European	Taiwan	New
States	Japan	apan Korea					Union		Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)

TSCA	ENCS	KECI					EINECS		NZIoC
_			IECSC -	DSL -	PICCS -	AICS -	_	TCSI -	_
United			China	Canada	Philippines	Australia	European	Taiwan	New
States	Japan	Korea					Union		Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

## Section 16 - Other information

Literature References

NITE GHS

EU CLP Regulation, AnnexVI

Other data

The information suggested in this Safety Data Sheet does not comprehend everything and should be adopted only as a guide.

The accuracy of the information and recommendations suggested herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all liability for reliance thereon.